

CERTIFICATE

I, the undersigned, Takashi KISO, residing at 5th Floor, Shintoshicenter Bldg., 24-1, Tsurumaki 1-chome, Tama-shi, Tokyo 206-0034 Japan, hereby certify that to the best of my knowledge and belief the following is a true translation into English made by me of Japanese Patent Application No. 2000-222589 filed on July 24, 2000.

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[NAME OF DOCUMENT] SPECIFICATION

[TITLE OF THE INVENTION] PERSONAL INFORMATION

MANAGING APPARATUS AND MANAGING METHOD

[SCOPE OF CLAIMS FOR PATENT]

5 [Claim 1]. A personal information managing apparatus comprising:

a signal processing section that performs processing at the time of transmitting or receiving a signal;

10 an information managing section that manages personal information and user identification information to transmit a management signal to said signal processing section based on the signal processed by said signal processing section; and

15 a control section that controls processing of the signal in said signal processing section and management of information in said information management section.

[Claim 2] The personal managing apparatus  
20 according to claim 1, wherein said control section includes a registering section that registers a personal information signal matching user identification information in advance and transmits a signal indicating a normal registration to said  
25 signal processing section when the personal information signal can be normally registered at a specific address position of said registering section.

[Claim 3] A personal information managing apparatus comprising:

a signal processing section that performs processing at the time of transmitting or receiving  
5 a signal;

an external interface section that manages personal information and user identification information to transmit a management signal to said signal processing section based on the signal  
10 processed by said signal processing section;

a control section that controls processing of the signal in said signal processing section and the signal in said external interface section; and

a registering section that registers a  
15 personal information signal matching user identification information.

[Claim 4] The personal information managing apparatus according to claim 3, wherein when the personal information signal can be normally  
20 registered at a specific address position of said registering section, a signal indicating a normal registration is transmitted to said signal processing section and said external interface section.

25 [Claim 5] A personal information managing apparatus for a base station, comprising:

a signal processing section that performs processing to a base station at the time of

transmitting or receiving a signal;

an information managing section that manages personal information and user identification information to transmit a management signal to said

5 signal processing section based on the signal processed by said signal processing section; and

a control section that controls processing of the signal in said signal processing section and management of information in said information  
10 management section.

[Claim 6] A personal information managing apparatus for a base station, comprising:

a signal processing section that performs processing to a base station at the time of  
15 transmitting or receiving a signal;

an external interface section that manages personal information and user identification information to transmit a management signal to said  
20 signal processing section based on the signal processed by said signal processing section;

a registering section that registers a personal information signal matching user identification in advance; and

a control section that transmits a signal  
25 indicating a normal registration to said signal processing section and controls processing of the signal in said signal processing section and the signal in said external interface section when the

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personal information signal can be normally registered at a specific address position of said registering section.

[Claim 7] A personal information managing  
5 apparatus for a mobile station, comprising:

a signal processing section that performs processing to a mobile station at the time of transmitting or receiving a signal;

an information managing section that manages  
10 personal information and user identification information to transmit a management signal to said signal processing section based on the signal processed by said signal processing section; and

a control section that controls processing of  
15 the signal in said signal processing section and management of information in said information management section.

[Claim 8] A personal information managing apparatus for a mobile station, comprising:

20 a signal processing section that performs processing to a mobile station at the time of transmitting or receiving a signal;

an external interface section that manages personal information and user identification  
25 information to transmit a management signal to said signal processing section based on the signal processed by said signal processing section;

a registering section that registers a

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personal information signal matching user  
identification in advance; and

a control section that transmits a signal  
indicating a normal registration to said signal  
5 processing section and controls processing of the  
signal in said signal processing section and the  
signal in said external interface section when the  
personal information signal can be normally  
registered at a specific address position of said  
10 registering section.

[Claim 9] A personal information managing  
apparatus for a control station, comprising:

a signal processing section that performs  
processing to a control station at the time of  
15 transmitting or receiving a signal;

an external interface section that manages  
personal information and user identification  
information to transmit a management signal to said  
signal processing section based on the signal  
20 processed by said signal processing section;

a registering section that registers a  
personal information signal matching user  
identification in advance; and

a control section that transmits a signal  
25 indicating a normal registration to said signal  
processing section and controls processing of the  
signal in said signal processing section and the  
signal in said external interface section when the

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personal information signal can be normally registered at a specific address position of said registering section.

[Claim 10] A personal information managing  
5 method comprising the steps of:

performing processing at the time of transmitting or receiving a signal;

managing personal information and user identification information to transmit a management  
10 signal to an external section based on the signal processed by said signal processing;

registering a personal information signal matching user identification information in advance; and

15 transmitting a signal indicating a normal registration to control processing of the signal in said signal processing and the signal in said external section when the personal information signal can be normally registered at a specific  
20 address position.

[DETAILED DESCRIPTION OF THE INVENTION]

[0001]

[Technical Field of the Invention]

The present invention relates to a personal  
25 information managing apparatus and managing method in mobile communications.

[0002]

[Prior Art]



In conventional mobile communications, there is a case in which personal information such as a telephone book, an e-mail address, a dial tone and a ring tone, and the like is stored by a cellular  
5 phone apparatus and each user manages them.

[0003]

As such a managing method, there is one that is disclosed in, for example, Japanese Patent 2868961 (radio receiving apparatus and method for  
10 adaptively controlling its operation parameter). In this managing method, there is one in which a specific reception mode is received when a first error reference exceeds a predetermined error reference so that intermodulation distortion of the  
15 radio receiving apparatus can be adaptively controlled to improve its operation characteristic.

[0004]

[Problems to be Solved by the Invention]

However, since the cellular phone apparatus  
20 has a short life time (about one or two years) of a machine as an article, there are many users, who frequently buy new ones, and they must take measures, for example, personal information is manually stored in the apparatus or stored in the apparatus  
25 using a dedicated data rewriting device every time when they buy new ones, and this takes extremely much time in some cases. Moreover, at the time of writing personal information using the dedicated data

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rewriting device, information is erroneously omitted in many cases.

[0005]

In view of the aforementioned problems, the present invention has been made and an object of the present invention is to provide a personal information managing apparatus and managing method that facilitates transfer of personal data with replacement of a cellular phone apparatus due to maintenance and management of personal data.

[0006]

[Means for Solving the Problems]

In order to attain the above object, a personal information managing apparatus of the present invention comprises a signal processing section that performs processing at the time of transmitting or receiving a signal; an information managing section that manages personal information and user identification information to transmit a management signal to the signal processing section based on the signal processed by the signal processing section; and a control section that controls processing of the signal in the signal processing section and management of information in the information management section.

[0007]

By the aforementioned configuration, personal information and user identification information are

managed to transmit the management signal to the signal processing section based on the signal processed by the signal processing section, the signal is managed to execute maintenance and management of personal information corresponding to the signal, thereby making it possible to facilitate transfer of personal data with replacement of a cellular phone apparatus.

[0008]

10 In the personal managing apparatus of the present invention, the control section includes a registering section that registers a personal information signal matching user identification information in advance and transmits a signal indicating a normal registration to the signal processing section when the personal information signal can be normally registered at a specific address position of the registering section.

[0009]

20 By the aforementioned configuration, when the personal information signal matching user identification information is registered in advance and the personal information signal can be normally registered at the specific address position, the signal indicating the normal registration is transmitted to the signal processing section and the signal is managed to execute maintenance and management of personal information corresponding to

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the signal, thereby making it possible to facilitate transfer of personal data with replacement of the cellular phone apparatus.

[0010]

5           A personal information managing apparatus of the present invention comprises a signal processing section that performs processing at the time of transmitting or receiving a signal; an external interface section that manages personal information and user identification information to transmit a management signal to the signal processing section based on the signal processed by the signal processing section; a control section that controls processing of the signal in the signal processing section and the signal in the external interface section; and a registering section that registers a personal information signal matching user identification information.

[0011]

20           By the aforementioned configuration, processing is performed at the time of transmitting or receiving the signal, the personal information and the user identification signal are managed to transmit the management signal based on the processed signal and processing of the signal and the signal are controlled to register the personal information signal matching the user identification information, and the signal is managed to execute

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maintenance and management of personal information corresponding to the signal, thereby making it possible to facilitate transfer of personal data with replacement of the cellular phone apparatus.

5 [0012]

The personal information managing apparatus of the present invention transmits a signal indicating a normal registration to the signal processing section and the external interface section when the  
10 personal information signal can be normally registered at a specific address position of the registering section.

[0013]

By the aforementioned configuration, when the  
15 personal information signal can be registered at the specific address position, the signal indicating the normal registration is transmitted to the signal processing section and the external interface section, and the signal is managed to execute  
20 maintenance and management of personal information corresponding to the signal, thereby making it possible to facilitate transfer of personal data with replacement of the cellular phone apparatus.

[0014]

25 A personal information managing apparatus for a base station of the present invention comprises a signal processing section that performs processing to a base station at the time of

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transmitting or receiving a signal; an information managing section that manages personal information and user identification information to transmit a management signal to the signal processing section based on the signal processed by the signal processing section; and a control section that controls processing of the signal in the signal processing section and management of information in the information management section.

10 [0015]

By the aforementioned configuration, processing is performed to base station at the time of transmitting or receiving the signal, the personal information and the user identification signal are managed based on the processed signal, and the management signal is transmitted to manage information such as signal processing, thereby making it possible to facilitate transfer of personal data with replacement of the cellular phone apparatus.

20 [0016]

A personal information managing apparatus for a base station of the present invention comprises a signal processing section that performs processing to a base station at the time of transmitting or receiving a signal; an external interface section that manages personal information and user identification information to transmit a

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management signal to the signal processing section based on the signal processed by the signal processing section; a registering section that registers a personal information signal matching  
5 user identification in advance; and a control section that transmits a signal indicating a normal registration to the signal processing section and controls processing of the signal in the signal processing section and the signal in the external  
10 interface section when the personal information signal can be normally registered at a specific address position of the registering section.  
[0017]

By the aforementioned configuration,  
15 processing is performed to the base station at the time of transmitting or receiving the signal, the personal information and the user identification signal are managed to transmit the management signal to the signal processing section based on the  
20 processed signal, the personal information signal matching the user identification information is registered in advance, and when the personal information signal is normally registered at the specific address position to be registered, the  
25 signal indicating the normal registration is transmitted to the signal processing section and processing of the signal processing section and the signal are controlled to manage information such as

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signal processing, thereby making it possible to facilitate transfer of personal data with replacement of the cellular phone apparatus.

[0018]

5 A personal information managing apparatus for a mobile station of the present invention comprises a signal processing section that performs processing to a mobile station at the time of transmitting or receiving a signal; an information  
10 managing section that manages personal information and user identification information to transmit a management signal to the signal processing section based on the signal processed by the signal processing section; and a control section that  
15 controls processing of the signal in the signal processing section and management of information in the information management section.

[0019]

By the aforementioned configuration,  
20 processing is performed to the mobile station at the time of transmitting or receiving the signal, the personal information and the user identification signal are managed based on the processed signal, the management signal is transmitted to manage  
25 processing of the signal and information, thereby making it possible to facilitate transfer of personal data with replacement of the cellular phone apparatus.



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[0020]

A personal information managing apparatus for a mobile station of the present invention comprises a signal processing section that performs processing to a mobile station at the time of transmitting or receiving a signal; an external interface section that manages personal information and user identification information to transmit a management signal to the signal processing section based on the signal processed by the signal processing section; a registering section that registers a personal information signal matching user identification in advance; and a control section that transmits a signal indicating a normal registration to the signal processing section and controls processing of the signal in the signal processing section and the signal in the external interface section when the personal information signal is normally registered at a specific address position of the registering section.

[0021]

By the aforementioned configuration, processing is performed to the mobile station at the time of transmitting or receiving the signal, the personal information and the user identification signal are managed based on the processed signal, management signal is transmitted to register the personal information signal matching the user

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identification information in advance, and when the personal information signal can be normally registered at the specific address position, the signal indicating the normal registration is transmitted and processing of the signal and the signal are controlled, and the management signal is transmitted and processing of the signal and information are managed, thereby making it possible to facilitate transfer of personal data with replacement of the cellular phone apparatus.

[0022]

A personal information managing apparatus for a control station of the present invention a signal processing section that performs processing to a control station at the time of transmitting or receiving a signal; an external interface section that manages personal information and user identification information to transmit a management signal to the signal processing section based on the signal processed by the signal processing section; a registering section that registers a personal information signal matching user identification in advance; and a control section that transmits a signal indicating a normal registration to the signal processing section and controls processing of the signal in the signal processing section and the signal in the external interface section when the personal information signal is normally

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registered at a specific address position of the registering section.

[0023]

By the aforementioned configuration, processing is performed to the control section at the time of transmitting or receiving the signal, the personal information and the user identification signal are managed based on the processed signal, management signal is transmitted to register the personal information signal matching the user identification information in advance, and when the personal information signal can be normally registered at the specific address position, the signal indicating the normal registration is transmitted and processing of the signal and the signal are controlled, and the management signal is transmitted and processing of the signal and information are managed, thereby making it possible to facilitate transfer of personal data with replacement of a cellular phone apparatus. A managing method of the present invention comprises the steps of performing processing at the time of transmitting and receiving a signal; managing personal information and user identification information to transmit a management signal based on the signal processed in the signal processing; and controlling processing of the signal in the signal processing and management of

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information.

[0024]

A personal information managing method comprising the steps of performing processing at the time of transmitting or receiving a signal; managing personal information and user identification information to transmit a management signal to an external section based on the signal processed by the signal processing; registering a personal information signal matching user identification information in advance; and transmitting a signal indicating a normal registration to control processing of the signal of the signal processing and the signal of said external section when the personal information signal is normally registered at a specific address position.

[0025]

In this way, processing is performed at the time of transmitting or receiving the signal, the personal information and the user identification signal are managed to transmit the management signal to the external section based on the signal processed in the signal processing, the personal information signal matching the user identification information is registered in advance, and when the personal information signal is normally registered at the specific address position, the signal indicating the normal registration is transmitted

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and the signal in the signal processing and the  
signal in the external section are controlled, and  
the management signal is transmitted to process the  
signal and manage information, thereby making it  
5 possible to facilitate transfer of personal data  
with replacement of the cellular phone apparatus.  
[0026]

[Embodiments of the Invention]

The outline of the present invention is that  
10 personal information is stored, and maintained and  
managed, thereby making it possible to facilitate  
transfer of personal data with replacement of a  
cellular phone apparatus.  
[0027]

15 (Embodiment 1)

An explanation is given of a personal  
information managing apparatus according to  
Embodiment 1 of the present invention. FIG. 1 is  
a block diagram of the personal information managing  
20 apparatus according to Embodiment 1 of the present  
invention.  
[0028]

In FIG. 1, a personal information managing  
apparatus 100 includes a coding and decoding device  
25 (signal processing section) 101 that performs  
coding and decoding at the time of transmitting or  
receiving a signal, a personal information managing  
device (information managing section) 103 that

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manages personal information and user identification information to transmit a management signal to the coding and decoding device 101 based on the signal processed by the coding and decoding device 101, and a control device (control section) 102 that manages processing of the signal in the coding and decoding device 101 and information in the information managing section.

[0029]

10 The control device 102 includes a registering device (registering section) 102a that registers a personal information signal matching user identification information in advance, and when the personal information signal is normally registered at a specific address position of the registering device 102a, a signal indicating a normal registration is transmitted to the coding and decoding device 101.

[0030]

20 By this configuration, the coding and decoding device 101 performs decoding of the received signal or coding of the transmitted signal. Moreover, the coding and decoding device 101 decodes the received signal and transmits the result to the control section 102.

[0031]

When the received result relates to "personal information is stored", the control section 102

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recognizes a user identification number, stores the received signal at an address of a memory position corresponding to the preregistered user identification number, transmits a signal  
5 indicating normal storage and "success of storage" to the coding and decoding device 101, and performs radio signal processing with a signal indicating that "personal information is transmitted."

[0032]

10 Moreover, when the transmitted user identification number is absent in numbers preregistered in the registering device 102a in connection with a signal corresponding to "personal information is received" or "personal information  
15 is received", the control device 102 transmits a signal corresponding to "retransmission of user identification number" to the coding and decoding device 101, and performs radio transmission processing at the coding and decoding device 101.

20 [0033]

By the aforementioned configuration, a user can store personal information such as a telephone number, a mail address and the like stored in his/her mobile terminal to surely and easily allow transfer  
25 of personal information caused by replacement of the mobile terminal.

[0034]

(Embodiment 2)

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In Embodiment 2 of the present invention, an explanation is given of a mobile station managing apparatus in the mobile station, which is an example of a personal information managing apparatus. FIG. 2 is a block diagram of a mobile station managing apparatus 200 in the mobile station according to Embodiment 2 of the present invention.

[0035]

In FIG. 2, the mobile station managing apparatus 200 in the mobile station includes a coding and decoding device 201 that performs radio transmission and reception processing and synchronization processing, a memory (registering section) 202 that stores personal information, and a control device 204 that controls an external interface 203 such as a microphone, a speaker, a key, etc.

[0036]

By the above configuration, the coding and decoding device 201 decodes and synchronizes a received signal or codes a transmission signal. Moreover, the coding and decoding device 101 decodes the received signal and transmits the result to the external interface 203.

25 [0037]

When the user carries out an operation corresponding to "store personal information" using a key of the external interface 203, the



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notification indicating that personal information and user identification number are transmitted to the control device 204 from the memory 202 is sent to the coding and decoding device 201, and upon  
5 generation of a signal at the coding and decoding device 201, personal information and the user identification information are read from the memory 202 and a signal indicating "store personal information" is generated to perform radio  
10 transmission processing.

[0038]

If the result of decoding the signal received from a base station apparatus 205 is a signal corresponding to "retransmit the user  
15 identification number", the coding and decoding device 201 reads the user identification number only from the memory 202 and performs radio transmission processing to carry out transmission. Moreover, when the decoding result is a signal indicating  
20 "transmit personal information", information is stored in the memory 202. Furthermore, when the decoding result is a notice of successful storage, the successful storage may be notified to the user via a display screen of the external interface 203,  
25 a speaker, or by any other means.

[0039]

With the above-explained configuration, the user can surely and easily transfer personal

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information such as telephone numbers, mail addresses and the like stored in his/her mobile terminal.

[0040]

5 (Embodiment 3)

An explanation is given of a personal information managing apparatus according to Embodiment 3 of the present invention. FIG. 3 is a block diagram of a personal managing apparatus for  
10 a base station according to Embodiment 3 of the present invention.

[0041]

In FIG. 3, a base station managing apparatus 300 in a base station apparatus includes a memory  
15 303 that stores personal information and user information, an access device 301 that controls access to the memory 303, a user identifying device 302 that performs comparison between a transmitted user identification number and a user  
20 identification number in the memory 303 and searching thereof, and a coding and decoding device 305 that performs radio transmission and reception processing and synchronization processing. In addition, the access device 301 and the user  
25 identifying device 302 may be provided in a control device 304.

[0042]

The user identifying device 302 compares the

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user identification number of the transmitted signal with the number preregistered in the memory 303, and transmits a signal corresponding to (retransmit user identification number) when there  
5 is no user identification number in a registration area in the memory 303.

[0043]

When there is a user identification number in the registration area in the memory 303 and the  
10 transmitted signal corresponds to "reception of personal information", an instruction is sent to the access device 301 in order to access the memory 303 for the corresponding personal information, and personal information designated by the access  
15 device 301 is read out, and then the result is sent together with a signal corresponding to "transmission of personal information."

[0044]

Furthermore, when there is a user  
20 identification number in the registration area in the memory 303 and the transmitted signal relates to "store personal information", a signal indicating that personal information is stored at a corresponding position of the memory 303 is sent  
25 to the user identifying device 302, and information of the memory 303 is written onto the user identifying device 302, so that a signal indicating "success of storage" can be generated. In this way,

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the user can surely and easily transfer personal information, which is necessitated by replacement of the mobile terminal.

[0045]

5 (Embodiment 4)

Embodiment 4 is an example which is suitable for a personal information management service environment including the base station apparatus having the personal information managing apparatus 10 300 for a base station described in Embodiment 3 and a mobile station apparatus 200 having the personal information managing apparatus 200 for a mobile station described in Embodiment 2.

[0046]

15 By the aforementioned configuration, a user can surely and easily transfer personal information such as a telephone number, a mail address and the like stored in his/her mobile terminal based on personal information from the base station at the 20 time of replacing the mobile terminal.

[0047]

(Embodiment 5)

Embodiment 5 is an example which is suitable for a personal information management service 25 environment in such a way that the base station managing apparatus 300 described in Embodiment 3 is provided in the base station apparatus, the base station managing apparatus 300 described in

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Embodiment 3 is provided in a control base station apparatus (not shown) and the mobile station managing apparatus 200 described in Embodiment 2 is provided in the mobile station apparatus.

5 [0048]

For example, in the case where the user stores his/her personal information in the base station managing apparatus 300, a password set for each user is transmitted to the base station from the user  
10 cellular phone apparatus. The following steps are taken. Namely, the user identifying device 302 recognizes the user using the password received by the base station, success of recognition is transmitted to the mobile station managing  
15 apparatus 200, thereafter, personal information selected by the user is transmitted to the base station from the cellular phone apparatus, and the result is stored in the memory 303 in the base station. At this time, user personal information  
20 is exclusively stored in the memory 303 (user's dedicated memory) for a certain period of time, thereby preventing personal information from being mistaken another user personal information.

[0049]

25 By the aforementioned configuration, the user can surely and easily transfer personal information such as a telephone number, a mail address and the like stored in his/her mobile terminal based on

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personal information from the base station and the control station at the time of replacing the mobile terminal.

[0050]

5 As explained above, according to the present embodiment, the user can store personal information such as a telephone number, a mail address and the like stored in his/her mobile terminal to surely and easily allow transfer of personal information  
10 caused by replacement of the mobile terminal. Moreover, personal information is exclusively stored in each of the base station apparatus and the control station apparatus for a certain period of time, so that personal information can be prevented  
15 from being lost and can be prevented from being mistaken for another user personal information, and a large number of users can receive the same service.  
[0051]

[Effects of the Invention]

20 As explained above, according to the present invention, it is possible to provide a personal information managing apparatus and managing method that that facilitates transfer of personal data with replacement of a cellular phone apparatus due to  
25 maintenance and management of personal data.

[BRIEF DESCRIPTION OF THE DRAWINGS]

[FIG.1] A block diagram of a personal information managing apparatus according to

Embodiment 1 of the present invention.

[FIG.2] A block diagram of a mobile station managing apparatus according to Embodiment 2 of the present invention.

5 [FIG.3] A block diagram of a base station managing apparatus according to Embodiment 3 of the present invention.

[Description of the Symbols]

100: personal information managing apparatus

10 101: coding and decoding device

102: control device

103: personal information managing apparatus

200: mobile station managing apparatus

201: coding and decoding device

15 202: memory

203: external interface

204: control device

300: base station managing apparatus

301: access device

20 302: user identifying device

303: memory

305: coding and decoding device

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[NAME OF DOCUMENT] ABSTRACT

[Abstract]

[Object] There is provided a personal information managing apparatus and managing method that facilitates transfer of personal data with replacement of a cellular phone apparatus due to maintenance and management of personal data.

[Overcoming Means] A personal information managing apparatus 100 includes a coding and decoding device 101 that performs coding and decoding at the time of transmitting or receiving a signal, a personal information managing device 103 that manages personal information and user identification information to transmit a management signal to the coding and decoding device 101 based on the signal processed by the coding and decoding device 101, and a control device 102 that manages processing of the signal in the coding and decoding device 101 and information in the information managing section. When a received result relates to "personal information is stored", the control section 102 recognizes a user identification number, stores the received signal at an address of a memory position corresponding to the preregistered user identification number, transmits a signal indicating normal storage and "success of storage" to the coding and decoding device 101, and performs radio signal processing with a signal indicating



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that "personal information is transmitted."

[Selected Drawings] FIG. 1

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## FIG. 1

100: PERSONAL INFORMATION MANAGING APPARATUS

101: CODING AND DECODING DEVICE

102: CONTROL DEVICE

5 102A: REGISTERING DEVICE

103: PERSONAL INFORMATION MANAGING DEVICE

## FIG. 2

200: MOBILE STATION MANAGING APPARATUS

10 201: CODING AND DECODING DEVICE

202: MEMORY

203: EXTERNAL INTERFACE

204: CONTROL DEVICE

205: BASE STATION APPARATUS

15 IN MOBILE STATION APPARATUS

## FIG. 3

300: BASE STATION MANAGING APPARATUS

301: ACCESS DEVICE

20 302: USER IDENTIFYING DEVICE

303: MEMORY

304: CONTROL DEVICE

305: CODING AND DECODING DEVICE

IN BASE STATION APPARATUS

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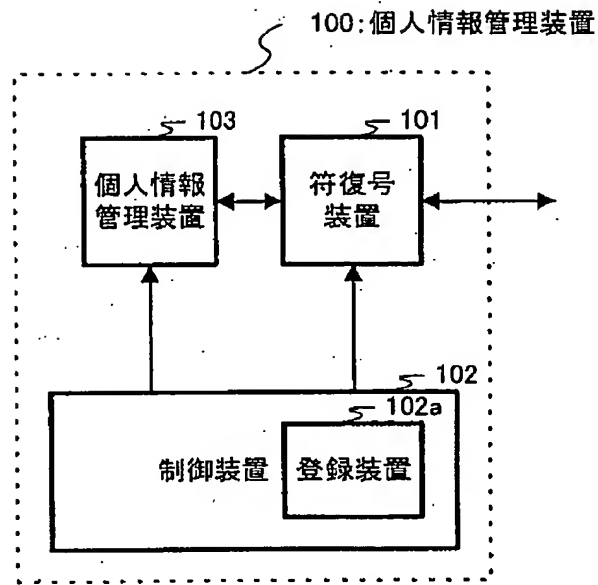


FIG. 1

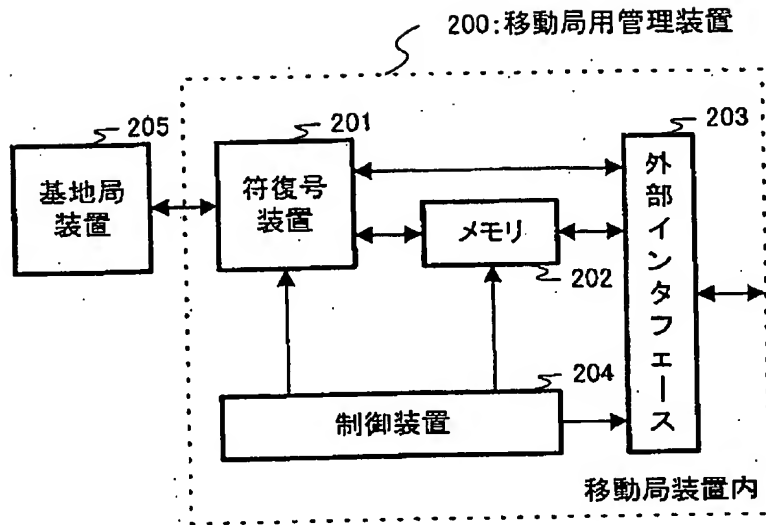


FIG.2

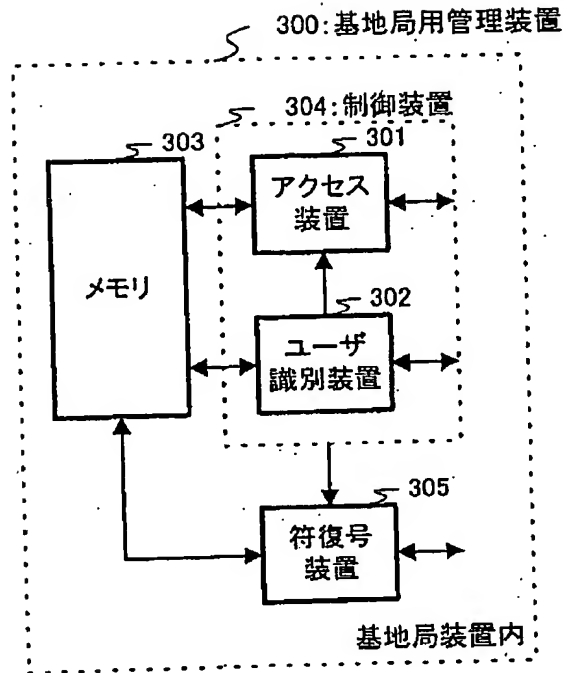


FIG. 3